

## Brief Introduction of Sodium Nitrate Products/硝酸钠

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### Introduction of Sodium Nitrate Products

Name: Sodium Nitrate

Aliases: sodium nitrate; chilean saltpeter; bluing powder; granular nitrate; salt nitrate; sodium (atomic absorption spectrometry); edible sodium nitrate; sodium ICP standard solution; sodium nitrate, 98+%; sodium nitrate, PURATRONIC | R, 99.999% (METALS BASIS); sodium nitrate, ACS, 99.0% MIN

CAS: 7631-99-4

EINECS: 231-554-3

Molecular formula:  $\text{NaNO}_3$

Relative molecular mass: 85.00

Sodium nitrate is a kind of inorganic salt, chemical formula is  $\text{NaNO}_3$ , white solid powder, colorless transparent or yellow diamond crystal with white microstrip, slightly bitter taste, easy to deliquesce. When dissolved in water, the solution temperature decreases and the solution is neutral.



## Main Indicators of Sodium Nitrate Products

Testing items	Index		
	Excellent quality	First grade	Qualified products
Mass fraction of sodium nitrate (dry basis), % $\geq$	99.7	99.3	98.5
Mass fraction of water % $\leq$	1.0	1.5	2.0
Mass fraction of water insoluble matter% $\leq$	0.03	0.06	-
Mass fraction of chloride (NaCl) (dry basis), % $\leq$	0.25	0.30	-
Mass fraction of sodium nitrite (dry basis), % $\leq$	0.01	0.02	0.15
Mass fraction of sodium carbonate (dry basis)% $\leq$	0.05	0.10	-
Mass fraction of iron% $\leq$	0.005	-	-
Loose degree $\geq$	90		
Note: 1. Water content is subject to factory inspection. 2. Looseness index is the item of adding anti-caking agent product control.			

### Use of Sodium Nitrate

Sodium nitrate is a kind of industrial material, and its use is very extensive. When using sodium nitrate, we have a better understanding of the use of sodium nitrate, and will be able to better play its use effect.

1. Used as flux, oxidant and raw material for enamel powder preparation in enamel Industry.



2、 Used as decolorizer, defoamer, clarifier and oxidizing flux in glass industry.



3、 Used in inorganic industry as decolorizer of molten caustic soda and in the manufacture of other nitrates. In the food industry, as a chromogenic agent for meat processing, it can prevent the deterioration of meat and play a seasoning role.



4、 Used as quick-acting fertilizer for acid soil in chemical fertilizer industry, especially for root crops such as beet and radish.



5、 Used as raw material for the production of picric acid and dyes in the dyestuff industry.



6、 Used as a chemical reagent in analytical chemistry.

